## Erik 2024-09-06

Thursday, August 29, 2024 6:20 PM

Maxwellove rounice

$$abla \cdot {f E} \; = rac{
ho}{arepsilon_0}$$

$$\nabla \cdot \mathbf{B} = 0$$

$$abla imes \mathbf{E} = -rac{\partial \mathbf{B}}{\partial t}$$

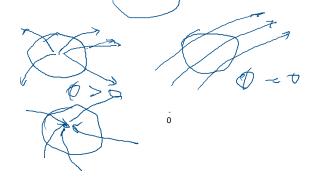
$$abla extbf{X} extbf{Y} = \mu_0 \left( extbf{J} + arepsilon_0 rac{\partial extbf{E}}{\partial t} 
ight)$$

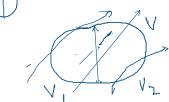
$$\operatorname{div} \vec{r} = \frac{\partial n_{x}}{\partial x} + \frac{\partial r_{y}}{\partial y} + \frac{\partial r_{z}}{\partial z}$$

$$\vec{\nabla} = \vec{a} \left( \times |M|^2 \right)$$

$$\vec{\nabla} = \vec{b} \left( \times |M|^2 \right)$$







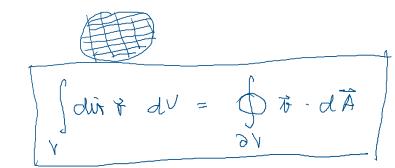
$$\phi(v_1) + \phi(v_2) = \phi(v)$$

$$Z \phi(v_{\bar{i}}) = \phi$$

$$\int dQ = Q$$

$$\int dQ dv = Q$$

$$V$$



$$div E = \frac{e}{e}$$

$$\int div E dV = \frac{1}{e} \int e dV$$

$$\oint E dA = \frac{Q}{e}$$

$$g(x) = \int x - dx$$

Terrodynanika

velleg poot d.f. spontanny proces Praia znena ad. paraneta Maly potet d.f. konholovaný proces Teplota niera horicosti telesa A,>31 Notah pre Hak idealrako plyru (Ohane stanovil rovince IP) Pruzný odraz ad shin That phyme = Sila = plocher = Ap = -2px

2-px

2-px  $\ddot{a} = \frac{f}{m} \qquad f = m \dot{a} = m \frac{dv}{dt} - \frac{dp}{dt}$  mv = p= dp tok hybnosti )- Arrett - N 1 Pocet Mistor le stare

A Px potet Mistor le stere custic allery potest

 $P = \frac{1}{Adt} \left( A_{N_{x}} db \frac{V}{V} \frac{1}{2} \cdot 2m r_{x} \right)$   $= 2 \frac{V}{V} \frac{1}{2} m r_{x}^{2} = \frac{2}{3} \frac{V}{V} \left( \frac{1}{2} m r^{2} \right)$ 

 $(\frac{1}{2}mr^{2}) < \frac{1}{2}mr^{2} + (\frac{1}{2}mr^{2}) + (\frac{1}{2}mr^{2}) + (\frac{1}{2}mr^{2}) > (\frac{1}{2}mr^{2}) > \frac{1}{3}(\frac{1}{2}mr^{2})$ 

(2 MN2) = Cl-f , 1/2 6.T.

omo

P = V KT

LB = 1.381.10-23 ]/K

N = NNA

P = ( NABOT - CRT

Nabudúce 21 1800,